Motion and Forces Jeopardy

- 1. The property of things to remain at rest if at rest, and in motion if in motion.
- 2. The distance traveled per time.
- 3. Formula Daily Double: What is the formula for acceleration?
- 4. The speed of an object and direction of motion.
- 5. A quantity that specifies direction as well as magnitude. Drawn as an arrow.
- 6. Which Newton's Law that states every object continues in a state of rest, or in a state of motion in a straight line at constant speed, unless it is compelled to change that state by forces exerted upon it. In other words, "Things like to do what they are already doing."
- 7. A push or a pull.
- 8. The combination of all forces that act on an object.
- 9. The scientific SI unit of force.
- 10. Math Daily Double: An object is lifted by a support force of 10 N and is pulled down by gravity at 15 N. What is the net force on the object? And include the direction.
- 11. Define terminal velocity.
- 12. $\Sigma F = 0$.
- 13. The force that supports an object against gravity.
- 14. Formula Daily Double: What is the formula for force?
- 15. The rate at which velocity changes with time; the change may be in magnitude or direction or both.
- 16. The property of things to resist changes in motion.
- 17. Visual Daily Double: What is the reading on each scale?
- 18. The quantity of matter in an object. The quantity of how much stuff an object has.
- 19. Visual Daily Triple: Draw a triangle on the board what does the this mean?
- 20. When two values change in opposite directions, so that one increases and the other decreases by the same amount.
- 21. The quantity of space an object occupies.
- 22. The force due to gravity on an object.
- 23. The fundamental SI unit of mass.
- 24. Formula Daily Double: What is the formula for momentum?
- 25. Which Newton's Law that states the force acting on an object is equal to the mass X the acceleration.
- 26. The force that opposes the motion when surfaces are in contact with one another.
- 27. Motion under the influence of gravitational pull only.
- 28. Frictional resistance due to motion through air.
- 29. The speed at which the acceleration of a falling object terminates because air resistance balances its weight.
- 30. The quantity that falling objects accelerate due to Earth's gravity.
- 31. Math Daily Triple: Include units, what is the acceleration of a train that goes from rest to 30 m/s in 5 s?
- 32. Which Newton's Law that states for every action there is an opposite and equal reaction.
- 33. Describe Daily Double: Describe the difference between weight and mass.
- 34. What is the product of an object's mass and its velocity called?
- 35. Define inertia.
- 36. A collision in which objects rebound without lasting deformation or the generation of heat.
- 37. A collision in which the colliding objects become distorted, generate heat, and join together.
- 38. Which law states the momentum before an event involving only internal forces is equal to the momentum after the event is called?
- 39. Which has more momentum a Mac Truck or a Volkswagen bug?
- 40. Which object falls faster to earth a heavy object of a light object?

Final Questions: f=mXa do not give a give vf-vi/t